

CLAIMS

Sub
P3
Gul

10087250-030102

1. Sealing device (1) with a sensor for a rolling bearing (2), the sealing device comprising a sealing shield (7) which is mounted between two races of the rolling bearing (2), and which also comprises an encoder wheel (8) which is arranged inside the rolling bearing (2) between the two races and the shield (7), and also comprises a detecting sensor (9) which is arranged frontally in relation to the encoder wheel (8) in a respective housing (10) which is presented by the shield (7); the sealing device (1) is characterised by the fact that the sensor (9) comprises a detection surface and is positioned inside the housing (10) in such a way that the detection surface (9s) directly faces the encoder wheel (8).

2. Device according to Claim 1, characterised by the fact that the said housing (10) comprises a support wall (16) which supports the sensor (9) in a stable operating configuration suitable for detecting, in which the detection surface (9s) directly faces the encoder wheel (8).

3. Device according to Claim 2, characterised by the fact that the said wall (16) defines a substantially annular window (15) through

the said shield (7) and which is made of substantially elastic material.

4. Device according to Claim 3, characterised by the fact that the said support wall (16) presents a continuous sealing lip (17) which is arranged in direct contact with a lateral surface (91) of the said sensor (9) and which presents a substantially conical conformation which is arranged in such a way that its own top part is opposite the rolling bearing (2) in relation to the shield (7).

5. Device according to Claim 3, characterised by the fact that the said shield (7) comprises a support element (11) which presents a rigidity which is greater than a rigidity of the said support wall (16), and which is arranged in substantial contact with one of the said two races.